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Thu Dec 27 11:52:25 2007	56 1 pthrea 56 1 first 57 }		50 static p	48 static b	46 static R	#include	37 #include 18 #include 39 #include 40 #include 41 #include	33 #include 34 #include 35 #include	30 /* #define 31 /* #define	24 #if !de: 25 static (26 27 27 #endif	/* ** The ** with			* * :	* * *	* * *	5 /* FIDM	* *	1 /*
5 2007 EDMDispatchConfig.cc 1	<pre>pthread_mutex_init(&G_configMtx, NULL); first = FALSE;</pre>	static void DispatchInitializeConfigMutex()	pthread_mutex_t G_configMtx = PTHREAD_MUTEX_INTTIALIZER;	boolean_ty first = TRUE;	RBC_CONFIGS *rbc = NULL;	<pre><ebconfig rbconfig.h=""> <edmdispatchconfig.h></edmdispatchconfig.h></ebconfig></pre>	<pre><unistd.h> <pthread.h> <memory.h> <sys time.h=""> <sys types.h=""></sys></sys></memory.h></pthread.h></unistd.h></pre>	<pre><es1 c_portable.h=""> es1/ep_xopen.h> es2/inout.h></es1></pre>	ine _POSIX_SOURCE unable to compile with this define ine _XOPEN_SOURCE unable to compile with this define	<pre>#if !defined(lint) static char</pre>	what(1) utility. The intent is to keep this	c idea here: Module for config file interaction	Compile-Time Options:	all uses of	Since the config file	Mission Statement: These are functions to deal with the APIs.	EDWDienarchOogfie	Copyright 1996,1997 EMC Corporation	
			ALIZER;						ine set */ ine set */	; ;	an be located 78 short. 79	7			handled in a lock around	config file			
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7											19 1	75 1 76 1	71 2 72 2 73 1		67 1	65 1	61 1 1		
T0.05 0007											<pre>pthread_mutex_unlock(&G_configMtx);</pre>	ret = rbc_parse_config(NULL, R	<pre>rbc_treeconfig(rbc); rbc = NULL; }</pre>	if (rbc != NULL)	13	<pre>if (first == TRUE) DispatchInitializeConfigMutex();</pre>	eperrno ret;	<pre>void DispatchReadConfig()</pre>	
											(figMtx);	L, &rbc, RBC_parse_do_NOT_preserve RBC_parse_apply);			igMtx);	igMutex();			
Dans O ak AO												RSE_APPLY);							

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of 40 EDMDispatchConfig.cc 3	allowed=1; return allow	<pre>pthread_mutex_unlock(&G_configMtx);</pre>	<pre>allowed = rbc_canirecover(rbc, host,</pre>	<pre>pthread_mutex_lock(&G_configMtx);</pre>	// The Configuration structure is not	eperrno err; boolean_ty allowed;			Page 3 of 40 DispatchCheckRestorePermission
Thu Dec 27 11:52:25 2007			username, &root, &err);		set up correctly !!! STEVE HOWARD			char *username)	Thu Dec 27 11:52:25 2007
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                                                                                                                                                         static
static
                                                                                                      struct Schedule {
                                     <u>.</u>,
                                                                                                                                1
                                                                                                                                                                                                                                                                                                                                                                                                                     #include
#include
                                                                                                                                                                                           static const int oneDaySeconds = SECONDS_PER_DAY;
                                                                                                                                                                                                                       #define
                                                                                                                                                                                                                                                                       #include
                                                                                                                                                                                                                                                                                     #include
                                                                                                                                                                                                                                                                                                 #include
                                                                                                                                                                                                                                                                                                               #include
                                                                                                                                                                                                                                  // Number of background activities run
                                                                                                                                                                                                                                                                                                                                         #include
                                                                                                                                                                                                                                                                                                                                                     #include
                                                                                                                                                                                                                                                                                                                                                                   #include
                                                                                                                                                                                                                                                                                                                                                                                #include
                                                                                                                                                                                                                                                                                                                                                                                             #include <unistd.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                              #include <esl/c_portable.h>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /#
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  static char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #if !defined(lint)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ** with the what(1) utility.
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                                                                                                                               Structure used
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                                                 void
                                                              long
                                                                            long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #define _POSIX_SOURCE
#define _XOPEN_SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The following provides an RCS id in the binary that can be located
        :52:25 2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Basic idea here: Module for Background thread
                                                                                         puor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Primary Data Acted On:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mission Statement:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EDMDispatchBackground.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Copyright 1996, 1997
                                                                                                                                                     const int configSeconds = 30; // 30 seconds
const int oneMinute = 60; // one minute in seconds
                                                                                                                                                                                                                       NUMBER_OF_ACTIVITIES
                                                                                                                                                                                                                                                           <EDMDispatchBackground.h>
                                                                                                                                                                                                                                                                       <EDMTimedMessageApi.h>
                                                                                                                                                                                                                                                                                  <EDMDispatchSession.h>
                                                                                                                                                                                                                                                                                                 <EDMDispatchConfig.h>
                                                                                                                                                                                                                                                                                                              <restore/dispatch_daemon.h>
                                                                                                                                                                                                                                                                                                                                       <sys/types.h>
                                                                                                                                                                                                                                                                                                                                                   <sys/time.h>
                                                                                                                                                                                                                                                                                                                                                                                                                     <es1/inout.h>
                                                                                                                                                                                                                                                                                                                                                                   <memory.h>
                                                                                                                                                                                                                                                                                                                                                                              <pthread.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                <esl/ep_xopen.h>
                                               (*cleanupfunc)();
                                                              nextrun;
                                                                          lastrun;
                                                                                       frequency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in the cleanup thread to schedule background
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This is the entry point
Its main purpose is to d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              that we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMC
  EDMDispatchBackground.cc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            '$Date: 1997/02/06 20:49:15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The intent is to keep this short.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             don't want
                                                                                                                                                                                                                                from the cleanup thread
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     to do some background
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              do elsewhere.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tor the cleanup thread.
                                                                                                                                                                               // one day
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ξ
                                                                                                                                                                               in
                                                                                                                activities
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         processing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DispatchBackground (void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void *
                                                                                                                                                                                                                                                                                                                                                                              Ļ
                                                                                                                                                                                                                                                                                                                                         while(1)
                                                                                                                                                                                                                                                                                                                                                     // Run things forever
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // Initialize each elements last and next run.
// The first run will be after sleepfor seconds.
for (int i = 0; i < NUMBER_OF_ACTIVITIES; i++)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              configSeconds,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       struct Schedule
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // These are all the activities that are scheduled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                time_t
                                                                                                                                                                                                                               // See which activities need to be run on
for (int i = 0; i < NUMBER_OF_ACTIVITIES;</pre>
                                                                                                                                                                                                                                                                       currTime = time(NULL);
                                                                                                                                                                                                                                                                                                 sleep(sleepfor);
                                                                                                                                                                                                                                                                                                             // Sleep for the shortest amount of time needed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         difference = sched[i].nextrun - sched[i].lastrun;
    2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sched[i].nextrun = sched[i].lastrun + sched[i].frequency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sched[i].lastrun = time(NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                               // We need to set the sleepfor value to something
                                                                    // See how long until this needs to be run
difference = sched[i].nextrun - currTime;
                // We need to set the sleepfor value to something
// first pass so we have something to compare to.
// lowest time is what we'll sleep for.
                                                                                                                                                                                                     if (sched[i].nextrun <= currTime)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DispatchReadConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oneMinute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oneMinute
                                                                                                                                                                                                                                                                                                                                                                                                       (i == 0 | difference < sleepfor)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oneMinute * 5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SECONDS_PER_HOUR,
                                                                                                                                                                                                                                                                                                                                                                                                                      lowest time is what we'll sleep for.
                                                                                                                                                                                                                                                                                                                                                                                                                                  first pass so we have something to compare to.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Frequency,
                                                                                                                                                                                                                                                                                                                                                                                          sleepfor = difference;
                                                                                                                       sched[i].nextrun = sched[i].lastrun +
                                                                                                                                     sched[i].lastrun = currTime;
                                                                                                                                                   // and change the lastrun and
sched[i].cleanupfunc();
                                                                                                                                                                              // This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sleepfor = difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  currTime;
                                                                                                                                                                            activity needs running.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sched[NUMBER_OF_ACTIVITIES] = {
EDMDispatchBackground.cc 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *buff)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lastrun,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DispatchBackground
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -1,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nextrun,
                                                                                                                                                                next
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SendPingMessagesToSession ),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DrainSessionDescriptors ),
                                                                                                                                                                           Call the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ReportLateTimedMessage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CheckDispatchSessions },
                                                                                                                                                                                                                                  i++)
                                                                                                                                                                                                                                              this
                                                                                                                                                                run values
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DispatchReadConfig ),
                                                                                                                        sched[i].frequency;
                                                                                                                                                                                                                                              pass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  function to call
                                                                                                                                                                            function
                                                                                                                                                                                                                                                                                                                                                                                                                                    The
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                              on the
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EDMDispatchBackground.cc 3	<pre>if (i == 0 difference < sleepfor)</pre>	DispatchBackground
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40 EDMDispatchBackground.cc 4		of 40
Thu Dec 27 11:52:25 2007		Thu Dec 27 11:52:25 2007

Thu Dec 27 11:52:25 2007 EDMDispatchSession.cc 1 Page 9 of 40	<pre>static pthread_mutex_t G_sessionTreeMtx = PTHREAD_MUTEX_INITIALIZER; extern ELinkHandlePtr_ty ELinkHandle;</pre>	static RWBinaryTree G_sessionTree;	#include <edmdispatchlog.h></edmdispatchlog.h>	<pre>#include <csc cscomm.h=""> #include <restore dispatch_daemon.h=""> #include <restore dispatch_protocol_client.h=""> #include <edmsession.h> #include <edmsession.h> #include <edmdhandlemgrapi.h> #include <edmdispatchsession.h> #include <edmdispatchsession.h> #include <edmdispatchsession.h> #include <edmdispatchconfig.h></edmdispatchconfig.h></edmdispatchsession.h></edmdispatchsession.h></edmdispatchsession.h></edmdhandlemgrapi.h></edmsession.h></edmsession.h></restore></restore></csc></pre>	// Rogue Wave includes #include <rw collect.h=""> #include <rw rwfile.h=""> #include <rw vstream.h=""> #include <rw bintree.h=""></rw></rw></rw></rw>	<pre>#include <pthread.h> #include <memory.h> #include <sys time.h=""> #include <sys types.h=""> #include <sys types.h=""></sys></sys></sys></memory.h></pthread.h></pre>	<pre>#include <esl c_portable.h=""> #include <esl ep_xopen.h=""> #include <esl inout.h=""></esl></esl></esl></pre>	/* #define _POSIX_SOURCE unable to compile with this define set */ /* #define _XOPEN_SOURCE unable to compile with this define set */	<pre>#if !defined(lint) static char RCS_id [] = "@(#)\$RCSfile: EDMDispatchSession.cc,v \$ "</pre>	/* ** The following provides an RCS id in the binary that can be located ** with the what(1) utility. The intent is to keep this short. */	** Basic idea here: Module for session management ** ** ** ** */	** USE_SUMRPC - Compile source with **	10 ** Primary Data Acted On: 11 ** Compile-Time Options.	** EDMDispa ** ** Mission	2 ** Copyright 1996,1999 EMC Corporation 3 */ 5 /*	1 /*
Thu Dec 27 11:52:25 2007 EDMDispatchSession.cc 2 Page 10 of 40								<pre>95 1 pthread_mutex_lock(&G_sessionTreeMtx); 96 }</pre>	<pre>89 1 89 1 90 2 { first == TRUE) 91 2 91 2 pthread_mutex_init(&G_sessionTreeMtx, NULL); 93 1 }</pre>	84 Static void 85 LockSessionMutex() 86 1 (static boolean_ty first = TRUE;	BU 23 G1 *********************************		** Outp	70 ** Routine: LockSessionMutex 71 ** 72 ** Inputs: None 73 **	68	Dec 27 1 1 22:23 2007

of 40 EDMDispatchSession.cc 4 Inu Dec 27 11:52:25 2007	Page 12 o	EDMUISPAICNSession.cc 3 Inu Dec 27 11:52:25 2007	40	Fage 11 of
allowed =	180 3			
case DD_SERVICE_RESTURE : boolean_ty allowed;	178 3			
#if 0	w			
<pre>// at this time, it is a waste of cycles</pre>	س			
read tthe config for				
commented out becaus				
switch(arg -> service)	172 2			
Carry Charles and an art of the control of the carry of t				
if (arm > isername != NIII. && arm -> hostname != NIII.)	170 1			
session -> setStatus(DD_SERVICE_STARTING);	168 1			
session -> setOperationType(arg -> service);	166 1			
SESSION -> SELPICATITHE(1);	164 1			
,				
session -> initSession();	162 1			
Tecority	160 1			
res -> status = DD_SERVICE_rainone_Nonexec,				
7				
if (session == NULL)				

session = new EDMSession();	154			
t = time(NULL);	152 1			
return;				
1	147 1			
THE NOT WILL				
pthread_t id;				_
EDMSession *ret;	142 1			
OOT DD_inicialize_resu				
InitializeSession(IN DD_initialize_args *arg, IN struct svc_req *req,			•	118
	138	ck(&G_sessionTreeMtx);	pthread_mutex_unlock(&G	
*/	136			مسو
			UnlockSessionMutex()	
*************************************	135		static void	114
•			`	į
** Purpose: Initialize a session for the GUI.	133	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	*	113
*** None		: * : *	**********	111
** Return Codes:				110
,		the mutex for the session tree object	** Purpose: Unlock th	109
operation succeeded or failed.	128		**	108
** Outputs: DD_initialize_result *res - the result structure which	127		** Return Codes:	106
	126			105
struct svc_req *req - the request block from RPC	125		** Outputs: None	104
** Inputs: DD_initialize_args *arg - args sent via KFC for starting session	124		** Inputs: None **	102
	123			101
** Routine: InitializeSession	122	UnlockSessionMutex	** Routine: UnlockSes	100
*	121		* *	99
/*************************************	120	***************************************	/*************************************	98
	,			
2 of 40 Initialize Session Thu Dec 27 11:52:25 2007	Page 12 of 40	UnlockSessionMutex Thu Dec 27 11:52:25 2007		Page 11 of 40

res -> status = 215		
Topurs: None Calacte session; Calacte session		
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Test -> SERVICE_PAILURE_PERMS: 210		
res -> status =		
res -> status = Calere session; Calere session		
res -> status = DD_SERVICE_FAILURE_PERMS; 223 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 123 12	return;	223 1
continue; cont	<pre>session -> setThreadID(id);</pre>	221 1
res -> status = 225	<pre>pthread_create(&id, NULL, &DDRSTsvc_i)</pre>	218 1
res -> status = 229 *** Inputs: None delete session: 221 *** Outputs: None return; 223 *** Outputs: None return; 223 *** Return Codes: break; 223 *** Purpose: Queve up all the ping messages to the sessions. If the ping messages to the ping messages to the sessions. If the ping messages to the ping messages to the sessions. If the ping messages to the ping messages to the	ssion -> getSessionID(&res ->	
return; DD_SERVICE_FAILURE_PERMS; DD_SERVICE_FAILURE_PERMS; DD_SERVICE_FAILURE_PERMS; PERMYS; DD_SERVICE_FAILURE_PERMS; DD_SERVICE_FAILURE_NONEXEC; DD_SERVICE_FAILURE_PERMS; DVAID *** Return Codes: *** Purpose: Queue up all the ping messages to the session! *** Purpose: Queue up all the ping messages to the session! *** Purpose: Queue up all the ping messages to the session! *** Purpose: Queue up all the ping messages to the sessions. *** Purpose: Queue up all the ping messages to the sessions. *** Purpose: Queue up all the ping messages to the sessions. *** Purpose: Queue up all the ping messages to the sessions. *** Purpose: Queue up all the ping messages to the sessions. *** Purpose: Queue up all the ping messa	return;	212 2 213 2 214 1
res -> status = DD_SERVICE_FAILURE_PERMS; 230	status =	
<pre>cres -> status = DD_SERVICE_PAILURE_PERMS;</pre>	if (ret == NULL)	
res -> status = DD_SERVICE_FAILURE_PERMS; 221 ** Inputs: None 222 ** Outputs: None 223 ** Outputs: None 223 ** Outputs: None 223 ** Purpose: Queue up all the ping messages to the sessions. 15	ockSessionMutex():	
res -> status = 230	_	205 1
res -> status = 229		
res -> status = 229	return;	200 2
res -> status = DD_SERVICE_FAILURE_PERMS; delete session; return; 231 ** Purpose: Queue up all the ping messages to the sessions. resssage for unknown service 238 ** Purpose: Queue up all the ping messages to the sessions. If the preak; 239 ** 241 ** 241 ** 241 ** 255 ** 266 ** 277 ** 278 ** 279 ** 289 ** 280 ** 280 ** 280 ** 281 ** 283 ** 284 ** 284 ** 285 ** 286 ** 287 ** 288 ** 289 ** 280 ** 280 ** 281 ** 281 ** 283 ** 284 ** 284 285 ** 286 ** 287 ** 288 ** 288 ** 289 ** 280 ** 280 ** 280 ** 281 ** 281 ** 281 ** 283 ** 284 284 284 285 ** 286 ** 287 ** 288 ** 288 ** 289 ** 280 ** 280 ** 280 ** 281 ** 281 ** 281 ** 281 ** 281 ** 281 ** 283 ** 284 ** 284 ** 284 ** 284 ** 284 ** 284 ** 285 ** 286 ** 287 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288 ** 288	session;	198 2 199 2
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229 ** 230 ** Inputs: None DD_SERVICE_FAILURE_PERMS; 231 ** ete session; 232 ** Outputs: None 233 ** 234 ** Return Codes: 235 ** 236 ** 236 **	default: // Add some error	
= 229 ** Inputs: VICE_FAILURE_PERMS; 231 ** Outputs: 232 ** Outputs: 233 ** Return Cod 235 **	#endif	190 3 191 3
= 229 ** VICE_FAILURE_PERMS; 231 ** 232 ** Outputs: 233 **	•	100
= 229 ** 230 ** Inputs: 231 **	ret	187 4
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		183 3 184 d
arg->hostname, 226 /**********************************		161 3
DispatchCheckRestoreDermission (

of 40 EDMDispatchSession.cc 8 Thu Dec 27 11:52:25 2007	Page 16	of 40 This Doc 37 11 50:05 2007	1
return 0;	391 1 392	return 0;	335 I
ret -> setLastSent{last};	389 1	ret -> setLastReceived(last);	333 1
<pre>sessID -> high, sessID -> low); return -1; }</pre>	385 2 386 2 387 1	return -1; sessID -> high, sessID -> low);	329 2 330 2 331 1
EDMDispatch_logent(FILE, _LINE, LOG_ERR, SESSION_LOOKUP_FAILED, 0 "Failure to update session %ld:%ld sent time"		EDMDispatch_logent(FILE, LINE, LOG_ERR, SESSION_LOOKUP_FAILED, 0,Failure to update session %ld:%ld received time"	
<pre>if (ret == NULL) {</pre>	381 1 382 2	if (ret == NULL)	325 1 326 2
delete session;	379 1	delete session;	323 1
UnlockSessionMutex();	377 1	UnlockSessionMutex();	321 1
ret = (EDMSession *) G_sessionTree.find((RWCollectable *) session);	375 1	ret = (EDMSession *) G_sessionTree.find((RWCollectable *) session);	319 1
	373 1	LockSessionMutex();	317 1
session -> setSessionID(sessID);	371 1	session -> setSessionID(sessID);	315 1
	369 1	return -1;	312 2 313 1
"Failure to create a session block");		FILE_, LINE_, LOG_ERR, SESSION_NO_MEMORY, 0, "Failure to create a session block");	
EDMDispatch_logent(365 2 366 2	FDMD spatch logent (309 2
if (session == NULL)	364 1	if (session == NULL)	
session = new EDMSession();	362 1	session = new EDMSession();	306 1
<pre>time_t last = time(NULL); EDMSession *session; EDMSession *ret;</pre>	358 1 359 1 360 1	<pre>time_t last = time(NULL); EDMSession *session; EDMSession *ret;</pre>	302 L 302 L 303 L 304 L
sts	356 357 1	int updateSessionLastReceived(DD_client_session_id *sessID)	
, ,	353	*/	297
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time.	350 351	** time.	294 295
** Purpose: Update the specified session with the lastest sent message	349	** Purpose: Update the specified session with the lastest received message	293
	347		291
Return Cod	345	Return	289
** Outputs: None	343		287
** Inputs: DD_client_session_id *sessID - session that sent us something	341		285
** Routine: UpdateSessionLastSent	339 340	** ** Routine: UpdateSessionLastReceived	283
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Routine:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RWBinaryTree reaperTree;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LockSessionMutex();
                                                                                                                                                                                                                                                                                                                                                currTime - maxDisconnectTime && sess->getLastReceived() != 0) ||
    (sess->getStartTime() <= currTime - maxDisconnectTime &&</pre>
                                                        things from the query tree. (respective.entries() > 0)
                                                                                            If the reaper tree has something in it then use those entries
                                                                                                                                                                                                     through with iterator
                                                                                                                                                                                         (sessionIterator !=
                                                                                                                                                              delete sessionIterator;
                             sessionIterator = new RWBinaryTreeIterator(reaperTree);
                                                                                                                                                                                                                                                                                                                                                                             if ( (sess->getLastReceived(
                                                                                                                                                                                                                                                                                                                                                                                                      (sess = (EDMSession*) (*sessionIterator)()) != NULL ) (
                                                                                                                                                                                                                                                        (void) reaperTree.insert(sess);
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                                                                                                                                                                                                                                                                                                                                     (sess -> getStatus(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Look for dead sessions and kill them off
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                                                                                                                                                                                                                                                                                              ) == DD_SERVICE_FAILURE_NONEXEC || sess -> getStatus() == DD_SERVICE_FAILURE_EXEC || sess -> getStatus() == DD_SERVICE_FAILURE_PERMS)) )
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                                                                                                                                                                                                                                                                                                                                                                             (sessionIterator != NULL)
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Haven't recieved anything since %ld. Current %ld",
sessID.high, sessID.low,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hout = 0, herr = 0, status = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drain whatever data is on stdout and stderr for sessions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    buff[1024];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            None
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                                                                                                                                                                                                                                                                                                                     (FD_ISSET(i, &stdoutSet))
                                                                                                                                                                                                                                                                                                                                           i < hout+1; i++)
                                                                                                                                                       (FD_ISSET(i, &stderrSet))
                                                                                                                                 while (read(i, buff, 1024) > 0);
                                                                                                                                                                                                                                                                                              while (read(i, buff, 1024) > 0);
                                                                                                                                                                                                               = select(
                                                                                                                                                                              0; i < herr+1; i++)
                                                                                                                                                                                                   herr + 1, &stderrSet, NULL, NULL, &timetowait)) >= 0)
 EDMDispatchSession.cc 11
                                                                                                                                                                                                                                                                                                                                                                hout + 1, &stdoutSet, NULL, NULL, &timetowait)) >=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DrainSessionDescriptors
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GetSessionStatus (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ** Return Codes:
**
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Purpose:
                                                                                    delete sess;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Outputs:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Routine:
                                                             if (ret == NULL)
                                                                                                          UnlockSessionMutex();
                                                                                                                                 ret = (EDMSession *) G_sessionTree.find((RWCollectable *) sess);
                                                                                                                                                                               sess -> setSessionID(ssid);
                                                                                                                                                                                                                                                                                                  if (sess == NULL)
                                                                                                                                                                                                                                                                                                                        sess = new EDMSession();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDMSession *sess
EDMSession *ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Inputs:
                                                                                                                                                        LockSessionMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (status == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                        (ssid == NULL | | s_status == NULL)
                                                                                                                                                                                                                  return -1;
                                                                                                                                                                                                                                                               EDMDispatch_logent(
___FILE_
                                                                                                                                                                                                                                                                                                                                                          return -1;
                                      EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                                                                           return -1;
                                                                                                                                                                                                                                        *status = SESSION_NO_MEMORY;
                                                                                                                                                                                                                                                                                                                                                                                   *status = SESSION_BAD_ARGS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Get status on the session.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 if successful and non-zero otherwise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int
int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GetSessionStatus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DD_client_session_id *ssid - session ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DD_client_session_id *ssid, int *s_status,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *Sess;
               __FILE__, __LINE__, LOG_ERR, SESSION_LOOKUP_FAILED, 0, "Failure to lookup session %ld:%ld",
EDMDispatchSession.cc 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *status - status of the function call
*s_status - session status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GetSessionStatus
                                                                                                                                                                                                                                                    "Failure to create a session block");
                                                                                                                                                                                                                                                                __LINE___, LOG_ERR, SESSION_NO_MEMORY, 0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int *status)
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:27 11:52:25 2007 EDMDispatchSession.cc 14 Page 22 of 40	Thu Dec	EDMDispatchSession cc 13 Page 21 of 40	11.59.95 2007	
<pre>memset(buff, 0, sizeof(buff));</pre>	676 1			
res -> status = ret -> getStatus();	674 1			
<pre>res -> status = DD_SERVICE_FAILURE_NONEXEC; return; }</pre>	670 2 671 2 672 1			
<pre>if (ret == NULL) { EDMDispatch_logent(</pre>	666 2 2 668 2 668 2 668 2			
delete sess;				
<pre>ret = (EDMSession *) G_sessionTree.find((RWCollectable *) sess); InlockSessionMutex():</pre>	658 1			
	656 1			
sess -> setSessionID(&arg -> service_handle);	654 1			
<pre>if (sess == NULL) { // Give an error EDMDispatch_logent(</pre>	648 2 649 2 650 2 651 2 652 1			
sess = new EDMSession();	645 1			
{ EDMSession *sess; EDMSession *ret; static char buff[CONNECT_HANDLE_SIZE];	640 1 641 1 642 1 643 1			
<pre>void GetDispatchStatus(IN DD_getservicestatus_args *arg,</pre>	637 638 639			
	5) 5			
tarting session.	628 630 631 632 633			
** Outputs: DD_getservicestatus_result *res - the result structure which tells **	626 627			6
** Inputs: DD_getservicestatus_args *arg - session ID to check the status of	624		turn 0;	p.,
** ** Routine: GetDispatchStatus **	621 622 623	getStatus();	*s_status = ret -> getSt	613 1
/ 非法法院有关 有头面外外的 计自然设计 计电影 医克勒氏试验检尿病 医克勒氏试验检尿病 医克勒氏试验检尿病 医克勒氏试验检尿病 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性	620	<pre>ssid -> high, ssid -> low); SESSION_LOOKUP_FAILED;</pre>	*status = return -1;	610 2 611 2 612 2
Thu Dec 27 11:52:25 2007 GetDispatchStatus Page 22 of 40		GetSessionStatus Page 21 of 40	Thu Dec 27 11:52:25 2007	nu Dec

E_ROMNING) (char*) ret -> getConnectionHandle(68) (char*) buff; (char*) buff;	of 40 EDMDispatchSession.cc 16 Thu Dec 27 11:52:25 2007	Page 24 of 40	EDMDispatchSession.cc 15 Thu Dec 27 11:52:25 2007	Dana 32 cf 40
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(ces -> handle.handle_len = CONNECT_HANDLE_SIZE; ces -> handle.handle.handle.len = CONNECT_HANDLE_SIZE; ces -> handle.handle.len = CONNECT_HANDLE_SIZE; ces -> handle.handle.len =	res -> totalsessions = 1;	746 2		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_len = CONNECT_HANDLE_SIZE: res -> handle.handle_len = CONNECT_HANDLE_SIZE: ssp				
res -> status == DD_SERVICE_NUNNING) res -> handle_handle_val = (char *) ret -> getConnectionHandle(res -> handle_handle_len = CONNECT_HANDLE_SIZE; res -> handle_handle_val = (char *) buff; res -> handle_handle_size = CONNECT_HANDLE_SIZE; res -> handle_handle_is = CONNECT_HANDLE_SIZE; res -> handle_handle_les =	<pre>UnlockSessionMutex(); return;</pre>			
res -> status == DD_SERVICE_NUNNING) res -> handle.handle_len = CONNECT_HANDLE_SIZE;	arg ->			
res -> status == DD_SERVICE_NUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHendle(service ha			
res -> status == D_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle()	, LOG_ERR, SESSION_LOOKUP_FAILED,			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(f (ret			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_len = CONNECT_HANDLE_SIZE; ss -> handle.handle_len = CONNECT_HAND	elete			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle() res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_len = CONN	et =			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(HRR -/ Rechespionity(word -/			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(oce -> cottooccionID(&arg ->			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(); res -> handle.handle_len = CONNECT_HANDLE_SIZE; ces -> handle.handle_len = CONNECT_HANDLE_SIZE; 693	<pre>UnlockSessionMutex(); return; }</pre>			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(); res -> handle.handle_len = CONNECT_HANDLE_SIZE; ces -> handle.handle_val = (char *) buff; res -> handle.handle_len = CONNECT_HANDLE_SIZE; 697	"Failure to create a session block");			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(<pre>f (sess == NULL) // Give an error EDMDispatch_logent(</pre>			
res -> status == DD_SERVICE_RUNNING) res -> handle handle_val = (char *) ret -> getConnectionHandle(<pre>// Looking for a single session. Do a sess = new EDMSession();</pre>			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(f (arg -> service_handle.nigh != ۱۰ هم طلع -> service_han			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_len = CONNEC				
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_len = CONNECT_HANDLE_SIZE; 695	LockSessionMutex();			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(EDMSession EDMSession SessionInfo static char			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(ispatchInfo(IN DD_getservicestatus_args OUT_SessionBlock *res)			
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(*/	704		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(}; 690 /****** res -> handle.handle_len = CONNECT_HANDLE_SIZE; res -> handle.handle_val = (char *) buff; res -> handle.handle_len = CONNECT_HANDLE_SIZE; 693 ** Routi 694 ** Input: 695 697 698 ** Output 699 ** Return 700 ** Purpos	法法法者法法 医香香素素 化异子素素 化苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基苯基	703		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(Parpose: Get Status on all the Sessions.	701		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(700		
res -> status == DD_SERVICE_RUNNING) complete connection Handle (690	Return Coc	699		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(697		
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(Outputs: SessionBlock *res - the information rega	969	-> handle.handle_val = (char *) buil; -> handle.handle_len = CONNECT_HANDLE	685 2 686 2 687 1
res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(Inputs: DD_getservicestatus_args *arg - session ID to check the	694		
f (res -> status == DD_SERVICE_RUNNING) res -> handle.handle_val = (char *) ret -> getConnectionHandle(}, 601	Routine:	692	res -> handle.handle_len = CONNECT_HANDLE_SIZE;	
f (res -> status == DD_SERVICE_RUNNING) 690 /******	**************************************	601	<pre>-> handle.handle_val = (char *) ret -></pre>	
	* * * * *	690	f (res -> status ==	678 1 679 2
10 GetDispatchStatus Thu Dec 27 11:52:25 2007 Page 24 of 40 GetDispatchInfo Thu Dec 27 11:52:25 2007	GetDispatchInfo	Page 2	GetDispatchStatus	Page 23 of 40

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                                                                                                                                                                                                                                                                                          boolean_ty addnext = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                         sinfo = res -> sess;
                                                                                                                                                                                                                                                                                                                                                                           RWBinaryTreeIterator *sessionIterator = new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (res -> sess == NULL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sinfo ->
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                  sinfo -> status = ret -> getStatus();
sinfo -> jobstarttime = ret -> getStartTime();
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                                                                                                                                                                                                                                   if (addnext)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             UnlockSessionMutex();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -> lastReceived = ret -> getLastReceived();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -> jobstarttime = ret -> getStartTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sess =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       totalsessions = 0;
                                               -> getSessionID(&sinfo -> service_handle);
                                                                                          sinfo = sinfo -> next;
                                                                                                                                                                                                        sinfo -> next = (SessionInfo *) calloc(1, sizeof(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               getSessionID(&sinfo -> service_handle);
                                                                                                                                                               if (sinfo -> next == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sess = (SessionInfo *) calloc(1, sizeof(SessionInfo));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                operation_type = ret -> getOperationType();
                                                                                                                                    break;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE_,
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  EDMDispatchSession.cc 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Failure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             __LINE__, LOG_ERR, SESSION_NO_MEMORY, 0, "Failure to allocate session info
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GetDispatchInfo
                                                                                                                                                                                                                                                               status;
                                                                                                                                                                                                                                                                                                                                                              RWBinaryTreeIterator(G_sessionTree);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOG_ERR, SESSION_NO_MEMORY, 0, to allocate session info
                                                                                                                                                                                           SessionInfo));
Page 25 of 40
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                block");
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             through with iterator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (sessionIterator != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   delete sessionIterator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sinfo -> next = NULL;
addnext = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sinfo -> lastSent = ret -> getLastSent();
sinfo -> lastReceived = ret -> getLastReceived();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     getHandleSet(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                res ->
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sinfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ٧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                totalsessions++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              operation_type = ret -> getOperationType();
lastSent = ret -> getLastSent();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        &sinfo -> service_handle, &sinfo -> outhandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           &sinfo -> errhandle, &status);
 EDMDispatchSession.cc 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GetDispatchInfo
   Page 26 of 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 26 of 40
```

SESSION_LIST_EMPTY, C ve session <%ld:%ld>" _id -> low); _session_NO_MEMORY, O session_block");	
SSION_LIST_EMPTY, 0, session <%ld:%ld>", d -> low); d -> low);	
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* * 0 5	## Page ### ################################

11:52:25 2007	Thu Dec 27	sc 27 11:52:25 2007 EDMDispatchLog.c 1 Page 29 of 40	Thu Dec
	125 1	** Intended caller: internal	63
(%S-%d) %S",	124 1		62
		gathering on messages and perhap	60 61
err_no);	120 2 121 1	** so that they can be consistently formatted. It is ** anticipated that this routine will also be used for	5 55 55 85
Str,			!
linenum,	117 2	** Purpose: All messages issued from the hamd should call this	56
			55
(void) sprintf(msgbuff, "(%s-%d) %s %s <%d>"	1114 2	** Return Codes:	5 5 4 6
		** Outputs: Calls esl_logent for output.	52
<pre>if (str == NULL) str = "Unknown Error":</pre>	111 2	inting	50
char *str = strerror(err_no);		ormat - format for printing,	49
if (err_no > 0) {	107 1	message # -	47
0 + re	+	priority -	46
wenrintf/ tmnbuff		Inputs: file name - c source file name	44
/* Build caller message with all arguments. */	103 1	** Routine: EDMDispatch_logent	41 42 43
<pre>tmpbuff[0] = 0; msgbuff[0] = 0;</pre>	99 1 100 1	/*************************************	40
<pre>va_start(vap, msg);</pre>	97 1	#include <edmdispatchlog.h></edmdispatchlog.h>	18 18 18
/* Setup variable argument list processing */	95 1		36
<pre>if (msg == NULL filename == NULL) return;</pre>	92 1 93 1	#include <ptnread.n> #include <stdarg.h> #include <string.h></string.h></stdarg.h></ptnread.n>	33 34 34
			31
<pre>if (first) { first=FALSE; pthread mutex init(&log mutex, NULL);</pre>	86 1 87 2 88 2	<pre>#include <esl c_portable.h=""> #include <esl ep_xopen.h=""> #include <esl inout.h=""></esl></esl></esl></pre>	27 28 29
<pre>char tmpbuff[EDMDispatch_MSGBUFF]; char msgbuff[EDMDispatch_MSGBUFF]; va_list vap; /* Variable argument pointer */ static pthread_mutex_t log_mutex = FTHREAD_MUTEX_INITIALIZER; static boolean_ty first = TRUE;</pre>	80 1 81 1 82 1 83 1 84 1	<pre>#if !defined(lint) static char</pre>	21 22 23 24 25
#define EDMDispatch_MSGBUFF 2048	78 1	** The following provides an RCS id in the binary that can be located ** with the what(1) utility. The intent is to keep this short. */	19
) /* Remaining arguments to msg */ {	<u>~</u>		17
•	75	** Basic idea here: Module for logging */	14 15
IN int err_no, /* esl_logent message number */ IN char *msq,	73	** Compile-Time Options:	11 12 13
EDMDispatch_logent(IN char *filename,	69 70 71 72	** Mission Statement: This is the logging wrapper around esl logging. ** Primary Data Acted On:	7 8 9
	68	/* ** EDMDispatchLog.c	0 0
* * * * * * * * * * * * * * * * * * * *	5h 5h	*/ */ copyright isso,isse EMC corporation	w K
	64	/* /* Opening 1000 1000 PM Communities	» _н
. 27 11:52:25 2007 EDMDispatch_logent Page 30 of 40	Thu Dec 27	Thu Dec 27 11:52:25 2007 Page 29 of 40	Thu

70						 1
Page 31 of 40	136 1	134 1	132 1		126 1 127 1	Page 31 of 40
of 40 EDMDispatchLog.c 3	* End of EDWDis	<pre>(void) esl_logent(priority, EB, EDMDISPATCH, msg_no, msgbuff);</pre>	pthread_mutex_lock(&log_mutex);	/* * Use a mutex lock because esl_logent is NOT thread safe. */	linenum, tmpbuff);	1 of 40 EDMDispatch_logent
Thu Dec 27 11:52:25 2007		H, msg_no, msgbuff);		IOT thread safe.		Thu Dec 27 11:52:25 2007
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EDMDispatchLog.c 4						
Thu Dec 27 11:52:25 2007						Thu Dec 27 11:52:25 2007

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function call
n-ek-hidden sammen.
args for the restore initialize

These are all the rpc entry points for the dispatch daemon. The dispatch daemon is multi-threaded and it is the main thread which handles all incoming RPC. ONC RPC is single threaded so each call blocks other RPC calls. This provides us some safety in the way we handle our data and limits our exposure to unexpected multithreading problems.
The second second
EDMDispatchService.c,v \$ ") \$ " ./06 20:49:15 \$" ;
70 71

Page 35 of				97 1 98	95 1	92 1 93 1	91 90	88		8 65 V	6 8 8	82	80 81	78 79	76	75	73	Page
5 of 40 EDMDispatchService.c 3 Thu Dec 27				return &argzz	GetDispatchStatus(arg, &argzz);	static DD_getservicestatus_result argzz;	_ 1_svc (etservicestatus_args *arg, IN struct	*/ nn netservicestatus result *		** Intended caller: Internal Only. ** Intended caller: Internal Only.	** Purpose: Function to poll for status on a session.	** DD_getservicestatus_result * - result of st	Return Codes:	** Outputs: None	** Inputs: DD_getservicestatus_args * - args for the getserv	** Routine: dd_getservicestatus_1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Page 35 of 40 dd_getservicestatus_1_svc Thu Dec 27
27 11:52:25 2007 Page 36	136 l	134 1	128 1 129 2 130 2 131 2 132 1	125 2 126 3 127 1			<pre>svc_req *req)</pre>	117	****** 115	**********	1112	status function 109		106	r the 104	102	********	11:52:25 2007
6 of 40 EDMDispatchService.c 4	return &argzz	<pre>GetDispatchInfo(arg, &argzz);</pre>			if (first)	sta	^	SessionBlock * dd_getsessioninfo_1_svg(*	***************************************	** Intended caller: Internal Only.	SessionBlock .	Return Codes:	** Outputs: None	** Inputs: DD_getservicestatus_args * - args	** Routine: dd_getsessioninfo_1		Page 36 of 40 dd_getsessioninfo_1_svc
Thu Dec 27 11:52:25 2007								IN struct svc req *req)		***************************************		all specions	ion info call		gs for the getsessioninfo call		**************************************	Thu Dec 27 11:52:25 2007

Thu		163	160 161	156 157 158	155	152	149	147	145	142	141	139	Thu
Thu Dec 27 11:52:25 2007		free(sess);	if (sess -> next != NULL) FreeSessionInfo(sess	if (sess == NULL) return;	static void FreeSes	** Intended caller:	** Purpose: Function **	** Return Codes: ** None	** Outputs: None		Routine:	****************	Thu Dec 27 11:52:25 2007
EDMDispatchService.c 5			<pre>Info(sess ~> next);</pre>	L)	static void FreeSessionInfo(SessionInfo *sess)	** Intended caller: Internal Only. ************************************	structures			mInfo * - arg to free	FreeSessionInfo	计分子符号计划 计计算计算计算计算计算计算计算计算计算计算计算计算计算计算计算计算计算计算	FreeSessionInfo
Page 37 of 40						******	in a list.					*****	Page 37 of 40
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	Page 38 of 40												Page 38 of 40

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0 EDMDispatchService.c 8	f 40
Thu Dec 27 11:52:25 2007	Thu Dec 27 11:52:25 2007